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NOTICE OF ALLOWANCE AND FEE(S) DUE

25889

7590

04/08/2010

COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576 EXAMINER

BERTHEAUD, PETER JOHN

ART UNIT PAPER NUMBER

3746

DATE MAILED: 04/08/2010

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,689	07/27/2006	Alfred Freiberger	FREIBERGER - 1 PCT	8394

TITLE OF INVENTION: REFRIGERANT COMPRESSOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1510	\$1510	07/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(: pape	s) Transmittal. This cer	tificate cannot be used fo er, such as an assignmen	domestic mailings of the r any other accompanying t or formal drawing, must
25889 7590 04/08/2010 COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD ROSLYN, NY 11576				I her State addre trans	Certifica eby certify that this Fector is Postal Service with standard to the Mail Stop mitted to the USPTO (5	te of Mailing or Transur e(s) Transmittal is being ufficient postage for first o ISSUE FEE address a (71) 273-2885, on the da	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR	ATT	ORNEY DOCKET NO.	CONFIRMATION NO.
10/587,689 TITLE OF INVENTION	07/27/2006 : REFRIGERANT COM	IPRESSOR	Alfred Freiberger		FR	EIBERGER - 1 PCT	8394
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nonprovisional	NO	\$1510	\$0		\$1510	\$1510	07/08/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	\neg			
BERTHEAUD,	PETER JOHN	3746	417-312000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	' Indication form ed. Use of a Customer A TO BE PRINTED ON '	or agents OR, alteri (2) the name of a s registered attorney 2 registered patent listed, no name wil. THE PATENT (print of data will appear on the T a substitute for filing	nativingle or a attor l be property or typens an a	e firm (having as a men gent) and the names of neys or agents. If no na printed. e) tent. If an assignee is	aber a 2up to me is 3identified below, the do	cument has been filed for
Please check the appropr			o. Payment of Fee(s): (Plea	<u> </u>	ation or other private grou	np entity Government
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 ↓ A check is enclosed. □ Payment by credit card. Form PTO-2038 is attached. □ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number				
	s SMALL ENTITY statu	is. See 37 CFR 1.27.				NTITY status. See 37 CF. I attorney or agent; or the	R 1.27(g)(2).
		tes Patent and Trademark					
Typed or printed name							
an application Confident	tiality is governed by 35 dapplication form to the tons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14 This collection is	s esti	mated to take 12 minut	es to complete including	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/587,689 07/27/2006		Alfred Freiberger	FREIBERGER - 1 PCT	8394	
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COLLARD & R	OE, P.C.	BERTHEAUD, PETER JOHN			
1077 NORTHERN		ART UNIT	PAPER NUMBER		
ROSLYN, NY 11:	576		3746		
		DATE MAILED: 04/08/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 287 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 287 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/587,689	FREIBERGER, ALFRED					
Notice of Allowability	Examiner	Art Unit					
	PETER J. BERTHEAUD	3746					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS					
1. \blacksquare This communication is responsive to <u>RCE filed 3/11/2010</u> .							
2. \boxtimes The allowed claim(s) is/are <u>9-16</u> .							
 3. Acknowledgment is made of a claim for foreign priority unanalysis. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Applicati	on No					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.						
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/11/2010 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview 5 Paper No 7.	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowance					
/Peter J Bertheaud/	/Devon C Krai	— mer/					
Examiner, Art Unit 3746		atent Examiner, Art Unit 3746					

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Elizabeth C. Richter on 11/18/2009.
- 3. The application has been amended as follows:

Claim 9 has been amended to now read:

- 9. A hermetically encapsulated refrigerant compressor, comprising:
- a hermetically sealed compressor housing;

a piston-cylinder unit disposed in an interior of the housing, said piston-cylinder unit compressing a refrigerant and comprising a suction valve with an intake port arranged in a valve plate of the suction valve;

a suction muffler through which the refrigerant flows to the suction valve of the piston-cylinder unit, said suction muffler being disposed on the cylinder head of the piston-cylinder unit and comprising:

a filling volume;

an inlet cross section through which refrigerant flows into the suction muffler; and a compensating volume in connection with the suction muffler and the interior of the compressor housing and in which the refrigerant oscillates,

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wherein the inlet cross section is simultaneously a connecting port between the compensating volume and the filling volume, and the compensating volume is formed by an outer tube which tightly encloses the intake port or and the inlet cross section and encloses a refrigerant suction pipe at least along a section, said outer tube being directed into the compressor housing, wherein the suction pipe extends from the exterior of the compressor housing into the interior of the compressor housing, and wherein the outer tube opens via a compensating opening and communicates with the interior of the compressor housing, and

wherein the compensating volume and filling volume are arranged so that refrigerant from the suction pipe flows into the compensating volume by passing through the filling volume.

Allowable Subject Matter

- 4. Claims 9-16 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art does not teach or disclose a suction muffler through which the refrigerant flows to the suction valve of a piston-cylinder unit, said suction muffler being disposed on a cylinder head of the piston-cylinder unit and comprising: a filling volume; an inlet cross section through which refrigerant flows into the suction muffler; and a compensating volume in connection with the suction muffler and the interior of the compressor housing and in which the refrigerant oscillates, wherein the inlet cross section is simultaneously a connecting port between the compensating volume and the filling volume, and the compensating volume is formed by an outer tube which tightly encloses the intake port

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and the inlet cross section and encloses a refrigerant suction pipe at least along a section, wherein the suction pipe extends from the exterior of the compressor housing into the interior of the compressor housing, and wherein the outer tube opens via a compensating opening and communicates with the interior of the compressor housing.

- 6. It is noted by the examiner, and stated here for the record of prosecution, that the aspect of the instant invention determined to be novel and patentably distinct from the prior art is the suction pipe extending from the exterior of the compressor housing into the interior of the compressor housing, and the outer tube opening via a compensating opening and communicating with the interior of the compressor housing. This limitation, in combination with the inlet cross section being simultaneously a connecting port between the compensating volume and the filling volume and the compensating volume being formed by an outer tube which tightly encloses the intake port and the inlet cross section and encloses a refrigerant suction pipe at least along a section makes the claim read over the prior art.
- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER J. BERTHEAUD whose telephone number is (571)272-3476. The examiner can normally be reached on M-F 9am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

PJB /Peter J Bertheaud/ Examiner, Art Unit 3746